

PATENT ABSTRACTS OF JAPAN

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(54) CHEMICALLY TEMPERABLE ALUMINOSILICATE GLASS AND ITS USE

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain chemically temperable aluminosilicate glass contg. a small number of bubbles of small size.

SOLUTION: This glass has a compsn. consisting of, by mol, 63.0-67.5% SiO₂, 9.5-12.0% Al₂O₃, 8.5-15.5% Na₂O, 2.5-4.0% K₂O 3.0-9.0% MgO, 0-2.5% CaO+SrO+ BaO+ZnO, 0.5-1.5% TiO₂, 0.02-0.5% CeO₂, 0.02-0.35% As₂O₃, 0-1.0% SnO₂ and 0.05-2.6% F₂ and satisfies $5.3 \leq \text{SiO}_2/\text{Al}_2\text{O}_3 \leq 6.85$, $3.0 \leq \text{Na}_2\text{O}/\text{K}_2\text{O} \leq 5.6$, $2.8 \leq \text{Al}_2\text{O}_3/\text{K}_2\text{O} \leq 3.6$ and $7.6 \leq \text{Al}_2\text{O}_3/(\text{TiO}_2 + \text{CeO}_2) \leq 18.5$. In the case where As is not contained, 0.02-1.0% SnO₂ and >0.5 to 2.6% F₂ are contained.